	Application No.	Applicant(s)
Notice of Allowability	09/674,839	SCHAAF ET AL.
	Examiner	Art Unit
	Brian L. Albertalli	2655
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm GHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>26 September 2005.</u>		
2. The allowed claim(s) is/are <u>8-21</u> .		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority doc 	been received. been received in Application	on No
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		w / RTO 048) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		w (FTO-946) attached
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	Amendment / Comment on the second of the sec	he drawings in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATI	ERIAL must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview S Paper No./ 8), 7. ☐ Examiner's	iformal Patent Application (PTO-152) ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance W. R. YOUNG PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

Claims 8-21 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 8, the prior art of record does not disclose, and would not suggest to one of ordinary skill in the art at the time of invention, the step of subtracting a frequency shifted total signal from a *first* microphone from the detected total signal of a *second* microphone, and *vice versa*. While it is well known in the art that frequency shifting reduces feedback in when microphones and loudspeakers are in close proximity, the input of a first microphone is typically frequency shifted before being output on a loudspeaker corresponding to that microphone. The prior art of record provides no suggestion for using the frequency shifted signal of a first microphone associated with a first speaker to subtractively superimpose the total signal of a second microphone and vice versa.

Claims 9-12 further limit claim 8 and thus are allowable.

Regarding claim 13, similar to claim 8, the prior art of record does not disclose, and would not suggest to one of ordinary skill in the art at the time of invention, subtractively superimposing a parallelly tapped loudspeaker signal (the loudspeaker signal of a particular section receiving the frequency shifted total signal from a second section's corresponding microphone) and the microphone signal of the respective subsection.

Claims 14-17 further limit claim 13 and thus are allowable.

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Claims 18-21 are allowed for the reasons indicated in the previous Office Action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Albertalli whose telephone number is (571) 272-7616. The examiner can normally be reached on Mon - Fri, 8:00 AM - 5:30 PM, every second Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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